1	Attorney Docket No. 82828
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3	NON-CONTACT WAVEFORM MONITOR
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5	ABSTRACT OF THE DISCLOSURE
6	A non-contact method and apparatus for continuously
7	monitoring a physiological event in a human or animal, such as
8	blood pressure, which involves utilizing a laser-based
9	interferometer system to produce a waveform that is
.0	representative of continuous blood pressure in a subject. The
.1	invention may preferably utilize a laser Doppler vibrometer which
.2	is oriented to produce a laser beam directed toward the subject
.3	substantially perpendicular to a skin surface of the subject
. 4	wherein the skin surface is moveable in response to blood
.5	pressure. The vibrometer is sensitive to motion of the skin
.6	surface in a direction parallel to the laser beam and produces a
.7	signal representative of this motion. By plotting the velocity
.8	of the skin surface movement in the direction parallel to the
9	laser beam with respect to time, a waveform is produced that has
20	been found to be representative of the blood pressure waveform
21	and highly defined to thereby permit accurate timing analysis
2	thereof relating to cardiac cyclos